

| L Number | Hits | Search text | IPB | Time stamp |
|-------------|------|--|--------------------|---------------------|
| 1 | 10 | gate adj line\$1 adj driv\$6 and receiv\$6 and predetermin\$5 adj voltage\$1 and vari\$9 and Control\$6 adj signal\$1 and supply\$6 | USPAT; EPO; JPO | 2004/06/03 14:47 |
| 2 | 0 | gate adj line\$1 adj driv\$6 and voltage\$1 and vari\$9 and Control\$6 adj signal\$1 and thermistor | USPAT; EPO; JPO | 2004/06/03 14:48 |
| 3 | 0 | gate adj line\$1 adj driv\$6 and voltage\$1 and vari\$9 and thermistor | USPAT; EPO; JPO | 2004/06/03 14:48 |
| 4 | 0 | gate adj line\$1 adj control\$9 and voltage\$1 and vari\$9 and thermistor | USPAT; EPO; JPO | 2004/06/03 14:49 |
| 5 | 0 | gate adj line\$1 adj control\$9 and thermistor | USPAT; EPO; JPO | 2004/06/03 14:49 |
| 6 | 15 | gate adj line\$1 and control\$9 and thermistor | USPAT; EPO; JPO | 2004/06/03 14:49 |
| 7 | 13 | gate adj line\$1 and control\$9 and thermistor and resistor | USPAT; EPO; JPO | 2004/06/03 14:49 |
| 8 | 5 | gate adj line\$1 and control\$9 and thermistor and resistor and ambient adj temperature | USPAT; EPO; JPO | 2004/06/03 14:50 |
| 9 | 4 | gate adj line\$1 and control\$9 and thermistor and resistor and ambient adj temperature and voltage and vari\$6 | USPAT; EPO; JPO | 2004/06/03 15:38 |
| 10 | 0 | gate adj line\$1 and control\$9 and thermistor and resistor and ambient adj temperature and voltage and vari\$6 and scan adj line | USPAT; EPO; JPO | 2004/06/03 15:39 |
| 11 | 7 | scan adj line\$1 and control\$9 and thermistor and resistor and ambient adj temperature and voltage and vari\$6 | USPAT; EPO; JPO | 2004/06/03 15:39 |
| 12 | 0 | scan adj line\$1 and control\$9 and thermistor and resistor and ambient adj temperature and voltage and vari\$6 and gate | USPAT; EPO; JPO | 2004/06/03 15:39 |
| 13 | 7 | scan adj line\$1 and control\$9 and thermistor and resistor and ambient adj temperature and voltage and vari\$6 | USPAT; EPO; JPO | 2004/06/03 15:39 |
| 14 | 80 | liquid adj crystal adj display and thermistor | USPAT; EPO; JPO | 2004/06/03 16:03 |
| 15 | 988 | liquid adj crystal adj display and thermistor | USPAT; EPO; JPO | 2004/06/03 16:03 |
| 16 | 447 | liquid adj crystal adj display and thermistor and resistor | USPAT; EPO; JPO | 2004/06/03 16:03 |
| 17 | 436 | liquid adj crystal adj display and thermistor and resistor and control\$9 | USPAT; EPO; JPO | 2004/06/03 16:03 |
| 18 | 414 | liquid adj crystal adj display and thermistor and resistor and control\$9 and voltage\$1 | USPAT; EPO; JPO | 2004/06/03 16:03 |
| 19 | 385 | liquid adj crystal adj display and thermistor and resistor and control\$9 and voltage\$1 and change\$9 | USPAT; EPO; JPO | 2004/06/03 16:04 |
| 20 | 384 | liquid adj crystal adj display and thermistor and resistor and control\$9 and voltage\$1 and change\$9 and temperature | USPAT; EPO; JPO | 2004/06/03 16:04 |
| 21 | 232 | liquid adj crystal adj display and thermistor and resistor and control\$9 and voltage\$1 and change\$9 and temperature and ambient | USPAT; EPO; JPO | 2004/06/03 16:04 |
| 22 | 18 | liquid adj crystal adj display and thermistor and resistor and control\$9 and voltage\$1 and change\$9 and temperature adj ambient | USPAT; EPO; JPO | 2004/06/03 16:05 |
| 23 | 5 | liquid adj crystal adj display and thermistor and resistor and control\$9 and voltage\$1 adj change\$9 and temperature adj ambient | USPAT; EPO; JPO | 2004/06/03 16:05 |

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| 24 | 0 | liquid adj crystal adj display and thermistor and resistor and control\$9 and voltage\$1 and change\$9 and temperature adj ambient and scan adj line | USPAT; EPO; JPO | 2004/06/03 16:06 |
| 25 | 0 | liquid adj crystal adj display and thermistor and resistor and control\$9 and voltage\$1 and change\$9 and temperature adj ambient and gate adj line | USPAT; EPO; JPO | 2004/06/03 16:06 |
| 26 | 0 | (liquid adj crystal adj display or LCD) and thermistor and resistor and control\$9 and voltage\$1 and change\$9 and temperature adj ambient and gate adj line | USPAT; EPO; JPO | 2004/06/03 16:06 |
| 27 | 0 | (liquid adj crystal adj display or LCD) and thermistor and resistor and control\$9 and voltage\$1 and change\$9 and temperature adj ambient and gate adj line | USPAT; EPO; JPO | 2004/06/03 16:07 |
| 28 | 2120 | (liquid adj crystal adj display or LCD) and scan adj line\$1 | USPAT; EPO; JPO | 2004/06/03 16:07 |
| 29 | 31 | (liquid adj crystal adj display or LCD) and scan adj line\$1 and thermistor | USPAT; EPO; JPO | 2004/06/03 16:07 |
| 31 | 3 | (liquid adj crystal adj display or LCD) and scan adj line\$1 and thermistor and resistor and control\$9 and voltage\$1 and change\$9 and temperature and ambient | USPAT; EPO; JPO | 2004/06/03 16:07 |
| 30 | 10 | (liquid adj crystal adj display or LCD) and scan adj line\$1 and thermistor and resistor | USPAT; EPO; JPO | 2004/06/03 16:14 |
| - | 809 | 345/204.ccls. | USPAT; EPO; JPO | 2004/01/27 08:16 |
| - | 1 | 5,532,712.pn. | USPAT; EPO; JPO | 2003/02/26 11:47 |
| - | 277 | drive adj circuit and transmissive and liquid adj crystal adj display | USPAT; EPO; JPO | 2003/02/26 11:59 |
| - | 1 | drive adj circuit and transmissive adj scattered and liquid adj crystal adj display | USPAT; EPO; JPO | 2003/02/26 11:59 |
| - | 15 | drive adj circuit and transmissive and liquid adj crystal adj display and ambient adj temperature | USPAT; EPO; JPO | 2003/02/26 12:00 |
| - | 101079 | liquid adj crystal adj display | USPAT; EPO; JPO | 2004/06/03 16:02 |
| - | 0 | liquid adj crystal adj display and charge adj characteristic and compensate | USPAT; EPO; JPO | 2003/03/02 14:49 |
| - | 4 | liquid adj crystal adj display and charge adj characteristic and compensate | USPAT; EPO; JPO | 2003/02/26 12:48 |
| - | 0 | liquid adj crystal adj display and charge adj characteristic and compensate adj circuit | USPAT; EPO; JPO | 2003/02/26 12:49 |
| - | 4 | liquid adj crystal adj display and charge adj characteristic and compensate and circuit | USPAT; EPO; JPO | 2003/02/26 12:49 |
| - | 3 | liquid adj crystal adj display and charge adj characteristic and compensate and circuit and ambient | USPAT; EPO; JPO | 2003/02/26 12:49 |
| - | 3 | liquid adj crystal adj display and charge adj characteristic and compensate and circuit and ambient adj temperature | USPAT; EPO; JPO | 2003/02/26 12:50 |
| - | 15 | liquid adj crystal adj display and charge adj characteristic | USPAT; EPO; JPO | 2003/02/26 13:03 |
| - | 0 | liquid adj crystal adj display and charge adj characteristic and gate adj control | USPAT; EPO; JPO | 2003/02/26 13:04 |
| - | 0 | liquid adj crystal adj display and charge adj characteristic and scanline adj control | USPAT; EPO; JPO | 2003/02/26 13:04 |
| - | 2 | liquid adj crystal adj display and charge adj characteristic and gate and control and temperature | USPAT; EPO; JPO | 2003/02/26 13:05 |
| - | 2 | 345/87.ccls. and temperature adj ambient | USPAT; EPO; JPO | 2003/02/26 13:08 |
| - | 3 | liquid adj crystal adj display and charge adj characteristic and gate and control | USPAT; EPO; JPO | 2003/02/26 13:11 |

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|---|-------|--|--------------------|---------------------|
| - | 253 | 345/87.ccls. and temperature | USPAT; EPO; JPO | 2003/02/26 13:24 |
| - | 14378 | 345/87.ccls. and temperature and switch and control scan adj line | USPAT; EPO; JPO | 2003/02/26 13:25 |
| - | 7 | 345/87.ccls. and temperature and switch and control and scan adj line | USPAT; EPO; JPO | 2003/02/26 13:34 |
| - | 5 | 345/204.ccls. and temperature and switch and control and scan adj line | USPAT; EPO; JPO | 2003/02/26 13:35 |
| - | 117 | gate adj line adj driver | USPAT; EPO; JPO | 2003/02/26 13:59 |
| - | 0 | gate adj line adj driver and current adj controller | USPAT; EPO; JPO | 2003/02/26 13:59 |
| - | 24 | gate adj line adj driver and current and controller | USPAT; EPO; JPO | 2003/02/26 14:00 |
| - | 1 | gate adj line adj driver and current and controller and respond and temperature and change | USPAT; EPO; JPO | 2003/02/26 14:00 |
| - | 3 | gate adj line adj driver and current and controller and respond | USPAT; EPO; JPO | 2003/02/26 14:46 |
| - | 1 | gate adj line adj driver and current and controller and respond and temperature | USPAT; EPO; JPO | 2003/02/26 14:47 |
| - | 20 | gate adj line adj driver and change and temperature | USPAT; EPO; JPO | 2003/02/26 14:48 |
| - | 2 | gate adj line adj driver and change adj temperature | USPAT; EPO; JPO | 2003/02/26 14:54 |
| - | 0 | gate adj line adj driver adj respond adj change adj temperature | USPAT; EPO; JPO | 2003/02/26 14:56 |
| - | 0 | gate adj line adj driver and respond adj change adj temperature | USPAT; EPO; JPO | 2003/02/26 14:56 |
| - | 56 | respond adj change adj temperature | USPAT; EPO; JPO | 2003/02/26 14:56 |
| - | 2 | respond adj change adj temperature and current adj controller | USPAT; EPO; JPO | 2003/02/26 15:00 |
| - | 4115 | current adj controller | USPAT; EPO; JPO | 2004/01/26 09:40 |
| - | 2 | current adj controller and respond adj change adj temperature | USPAT; EPO; JPO | 2003/02/26 15:02 |
| - | 0 | current adj controller adj respond adj (change adj temperature) | USPAT; EPO; JPO | 2003/02/26 15:03 |
| - | 0 | current adj controller adj respond and (change adj temperature) | USPAT; EPO; JPO | 2003/02/26 15:03 |
| - | 81 | current adj controller and (change adj temperature) | USPAT; EPO; JPO | 2003/02/26 15:04 |
| - | 1 | 5,754,154.pn. | USPAT; EPO; JPO | 2003/02/27 13:26 |
| - | 1 | 5,852,430.pn. | USPAT; EPO; JPO | 2003/02/27 13:27 |
| - | 1 | 6,075,511.pn. | USPAT; EPO; JPO | 2003/02/27 13:28 |
| - | 1 | 6,313,818 B1.pn. | USPAT; EPO; JPO | 2003/02/27 13:28 |
| - | 2 | 345/94-101.ccls. and temperature adj detection and current adj detection | USPAT; EPO; JPO | 2003/02/27 13:31 |
| - | 927 | 345/97.ccls. | USPAT; EPO; JPO | 2003/03/01 15:44 |
| - | 157 | 345/97.ccls. and current controller and resistor and thermistor and TFT | USPAT; EPO; JPO | 2003/03/01 15:44 |
| - | 156 | 345/97.ccls. and current controller and resistor and thermistor and TFT and transistor | USPAT; EPO; JPO | 2003/03/01 15:44 |
| - | 0 | 345/97.ccls. and current adj controller and resistor and thermistor and TFT and transistor | USPAT; EPO; JPO | 2003/03/01 15:46 |
| - | 0 | 345/97.ccls. and current adj controller and resistor and thermistor and transistor | USPAT; EPO; JPO | 2003/03/01 15:45 |
| - | 0 | 345/97.ccls. and current adj controller and resistor and thermistor | USPAT; EPO; JPO | 2003/03/01 15:45 |
| - | 0 | 345/97.ccls. and current adj controller and resistor | USPAT; EPO; JPO | 2003/03/01 15:45 |

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| - | 0 | 345/97.ccls. and current adj controller | USPAT; EPO; JPO | 2003/03/01 15:45 |
| - | 0 | 345/97.ccls. and current and controller and resistor and thermistor and TFT and transistor | USPAT; EPO; JPO | 2003/03/01 15:46 |
| - | 0 | 345/97.ccls. and controller and resistor and thermistor and TFT and transistor | USPAT; EPO; JPO | 2003/03/01 15:46 |
| - | 0 | 345/97.ccls. and controller and resistor and thermistor and transistor | USPAT; EPO; JPO | 2003/03/01 15:46 |
| - | 2 | 345/97.ccls. and controller and resistor and transistor | USPAT; EPO; JPO | 2003/03/01 15:46 |
| - | 0 | 345/97.ccls. and controller and resistor and transistor and thermistor | USPAT; EPO; JPO | 2003/03/01 15:46 |
| - | 0 | current adj controller and resistor and thermistor and TFT and transistor | USPAT; EPO; JPO | 2003/03/01 15:47 |
| - | 50 | current adj controller and resistor and thermistor and transistor | USPAT; EPO; JPO | 2003/03/01 15:48 |
| - | 0 | current adj controller and resistor and thermistor and transistor and LCD | USPAT; EPO; JPO | 2003/03/01 15:47 |
| - | 0 | current adj controller and resistor and thermistor and transistor and liquid adj crystal adj display | USPAT; EPO; JPO | 2003/03/01 15:47 |
| - | 1326 | controller and resistor and transistor and thermistor | USPAT; EPO; JPO | 2003/03/01 15:48 |
| - | 50 | current adj controller and resistor and thermistor and transistor and temperature and voltage | USPAT; EPO; JPO | 2003/03/01 15:55 |
| - | 20 | current adj controller and resistor and thermistor and transistor and temperature and voltage and display | USPAT; EPO; JPO | 2003/07/14 09:15 |
| - | 0 | current adj controller and resistor and thermistor and transistor and temperature and voltage and display and liquid adj crystal | USPAT; EPO; JPO | 2003/03/01 15:49 |
| - | 20 | current adj controller and resistor and thermistor and transistor and temperature and voltage and display | USPAT; EPO; JPO | 2003/03/01 15:49 |
| - | 0 | current adj controller and resistor and thermistor and matrix and TFT and temperature and voltage | USPAT; EPO; JPO | 2003/03/01 15:56 |
| - | 3 | current adj controller and resistor and thermistor and matrix and temperature and voltage | USPAT; EPO; JPO | 2003/03/01 15:57 |
| - | 0 | current adj controller and resistor and thermistor and matrix and gate and source and drain and voltage | USPAT; EPO; JPO | 2003/03/01 15:57 |
| - | 0 | current adj controller and resistor and thermistor and matrix and gate and source and drain | USPAT; EPO; JPO | 2003/03/01 15:57 |
| - | 93 | resistor and thermistor and matrix and gate and source and drain | USPAT; EPO; JPO | 2003/03/01 15:58 |
| - | 415 | resistor and thermistor and LCD | USPAT; EPO; JPO | 2003/03/01 15:58 |
| - | 0 | resistor and thermistor and LCD and gate adj control | USPAT; EPO; JPO | 2003/03/01 15:58 |
| - | 220 | resistor and thermistor and LCD and gate and control | USPAT; EPO; JPO | 2003/03/03 08:24 |
| - | 111 | resistor and thermistor and LCD and gate and control and drain | USPAT; EPO; JPO | 2003/03/01 15:59 |
| - | 6 | resistor and thermistor and LCD and gate and control and drain and source and pixels | USPAT; EPO; JPO | 2003/03/03 10:29 |
| - | 2 | resistor and thermistor and LCD and gate and control and matrix and TFT | USPAT; EPO; JPO | 2003/03/01 16:09 |
| - | 2 | resistor and thermistor and LCD and matrix and TFT | USPAT; EPO; JPO | 2003/07/14 17:48 |
| - | 107 | resistor and thermistor and LCD and gate and control and drain and source | USPAT; EPO; JPO | 2003/03/02 14:35 |
| - | 4 | liquid adj crystal adj display and charge adj characteristic and compensate | USPAT; EPO; JPO | 2003/03/02 14:50 |

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| - | 0 | liquid adj crystal adj display and charge adj characteristic and compensate and thermistor | USPAT; EPO; JPO | 2003/03/02 14:50 |
| - | 0 | liquid adj crystal adj display and charge adj characteristic and compensate and temperature adj control | USPAT; EPO; JPO | 2003/03/02 14:51 |
| - | 5 | liquid adj crystal adj display and charge adj characteristic and gate | USPAT; EPO; JPO | 2003/03/02 15:07 |
| - | 0 | liquid adj crystal adj display and charge adj characteristic adj compensator | USPAT; EPO; JPO | 2003/03/02 15:49 |
| - | 0 | liquid adj crystal adj display and charge adj characteristic adj compensate | USPAT; EPO; JPO | 2003/03/02 15:49 |
| - | 4 | liquid adj crystal adj display and charge adj characteristic and compensate | USPAT; EPO; JPO | 2003/03/02 15:50 |
| - | 10 | resistor and thermistor and positive adj temperature adj coefficient and LCD and gate and control | USPAT; EPO; JPO | 2003/03/03 07:52 |
| - | 0 | thermistor and LCD and gate and control and possitive adj temperature adj coefficient | USPAT; EPO; JPO | 2003/03/03 08:26 |
| - | 0 | thermistor and LCD and possitive adj temperature adj coefficient | USPAT; EPO; JPO | 2003/03/03 08:25 |
| - | 1860 | thermistor and positive adj temperature adj coefficient | USPAT; EPO; JPO | 2003/03/03 08:26 |
| - | 10 | thermistor and LCD and gate and control and positive adj temperature adj coefficient | USPAT; EPO; JPO | 2003/03/03 08:26 |
| - | 0 | thermistor and LCD and gate and control and positive adj temperature adj coefficient and 345/\$ | USPAT; EPO; JPO | 2003/03/03 08:26 |
| - | 10 | thermistor and LCD and gate and control and positive adj temperature adj coefficient | USPAT; EPO; JPO | 2003/03/03 08:33 |
| - | 13916509 | thermistor and LCD and gate and control and positive adj temperature adj coefficient a nd resistor | USPAT; EPO; JPO | 2003/03/03 08:33 |
| - | 10 | thermistor and LCD and gate and control and positive adj temperature adj coefficient and resistor | USPAT; EPO; JPO | 2003/03/03 08:33 |
| - | 10 | thermistor and LCD and gate and control and positive adj temperature adj coefficient and resistor and parallel | USPAT; EPO; JPO | 2003/03/03 08:34 |
| - | 10 | thermistor and LCD and gate and control and positive adj temperature adj coefficient and resistor and parallel and switch | USPAT; EPO; JPO | 2003/03/03 08:34 |
| - | 12 | liquid adj crystal adj display and positive adj temperature adj coefficient adj thermistor | USPAT; EPO; JPO | 2003/03/03 10:09 |
| - | 0 | liquid adj crystal adj display and positive adj temperature adj coefficient adj thermistor and active adj matrix | USPAT; EPO; JPO | 2003/03/03 10:10 |
| - | 0 | liquid adj crystal adj display and positive adj temperature adj coefficient adj thermistor and TFT | USPAT; EPO; JPO | 2003/03/03 10:10 |
| - | 0 | liquid adj crystal adj display and positive adj temperature adj coefficient adj thermistor and gate adj control | USPAT; EPO; JPO | 2003/03/03 10:11 |
| - | 0 | resistor and thermistor and LCD and gate and control and drain and source and pixels and positive adj temperature adj coefficient adj thermistor | USPAT; EPO; JPO | 2003/03/03 10:30 |
| - | 12 | liquid adj crystal adj display and positive adj temperature adj coefficient adj thermistor | USPAT; EPO; JPO | 2003/03/03 14:24 |
| - | 237 | 320/116.ccls. | USPAT; EPO; JPO | 2003/03/03 14:24 |
| - | 0 | 320/116.ccls. and positive adj temperature adj coefficient adj thermistor | USPAT; EPO; JPO | 2003/03/03 14:26 |

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| - | 1 | 320,116.ccls. and positive adj temperature adj coefficient adj thermistor | USPAT; EPO; JPO | 2003/03/03 14:27 |
| - | 1 | 320/116,128.ccls. and positive adj temperature adj coefficient adj thermistor | USPAT; EPO; JPO | 2003/03/03 14:28 |
| - | 33 | batteries and positive adj temperature adj coefficient adj thermistor | USPAT; EPO; JPO | 2003/03/03 14:28 |
| - | 3 | batteries and positive adj temperature adj coefficient adj thermistor and LCD | USPAT; EPO; JPO | 2003/03/03 14:28 |
| - | 0 | 011273973A | USPAT; EPO; JPO | 2003/03/04 09:06 |
| - | 0 | 11273973A | USPAT; EPO; JPO | 2003/03/04 09:06 |
| - | 13912690 | "11273973" A | USPAT; EPO; JPO | 2003/03/04 09:12 |
| - | 1 | "11273973" | JPO | 2003/03/04 09:13 |
| - | 0 | JP011273973A | JPO | 2003/03/04 09:18 |
| - | 1 | jp-01127973-\$.did. | JPO | 2003/03/04 09:18 |
| - | 10580 | gate adj voltage and current and change | USPAT; EPO; JPO | 2003/07/11 09:59 |
| - | 1873 | gate adj voltage and current and change and controller | USPAT; EPO; JPO | 2003/07/11 10:00 |
| - | 0 | gate adj voltage and current and change and controller and resistor and thermistor and compensat\$4 and charge adj characteristic | USPAT; EPO; JPO | 2003/07/11 10:01 |
| - | 6 | gate adj voltage and current and change and controller and resistor and thermistor and compensat\$4 and charge and characteristic and circuit and ambient adj temperature | USPAT; EPO; JPO | 2003/07/11 10:17 |
| - | 11 | gate adj voltage and current and change and controller and resistor and thermistor and compensat\$4 and charge and characteristic and circuit | USPAT; EPO; JPO | 2003/07/11 10:04 |
| - | 3 | gate adj voltage and current and change and controller and resistor and thermistor and compensat\$4 and charge and characteristic and circuit and ambient adj temperature and display | USPAT; EPO; JPO | 2003/07/11 11:05 |
| - | 796275 | ambient adj temperature and gate adj voltage and current and change and controller and resistor and thermistor and compensat\$4 and charge and characteristic and circuit and display | USPAT; EPO; JPO | 2003/07/11 11:06 |
| - | 3 | ambient adj temperature and gate adj voltage and current and change and controller and resistor and thermistor and compensat\$4 and charge and characteristic and circuit and display | USPAT; EPO; JPO | 2003/07/11 11:06 |
| - | 11 | gate adj voltage and current and change and controller and resistor and thermistor and compensat\$4 and charge and characteristic | USPAT; EPO; JPO | 2003/07/11 11:07 |
| - | 40 | gate adj voltage and current and change and controller and resistor and thermistor and compensat\$4 | USPAT; EPO; JPO | 2003/07/11 11:07 |
| - | 72 | gate adj voltage and current and change and controller and resistor and thermistor | USPAT; EPO; JPO | 2003/07/11 11:08 |
| - | 0 | liquid adj crystal adj display and charge adj characteristic adj compensat\$4 adj circuit | USPAT; EPO; JPO | 2003/07/11 14:44 |
| - | 0 | liquid adj crystal adj display and charge adj characteristic and compensat\$4 adj circuit | USPAT; EPO; JPO | 2003/07/11 14:43 |

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| - | 0 | charge adj characteristic adj compensat\$4 adj circuit | USPAT; EPO; JPO | 2003/07/11 14:44 |
| - | 0 | charge adj characteristic adj compensating adj circuit | USPAT; EPO; JPO | 2003/07/11 14:44 |
| - | 1 | liquid adj crystal adj display and charge and characteristic adj compensat\$4 adj circuit | USPAT; EPO; JPO | 2003/07/11 14:45 |
| - | 59 | liquid adj crystal adj display and charge and characteristic and compensat\$4 adj circuit | USPAT; EPO; JPO | 2003/07/11 14:45 |
| - | 11 | liquid adj crystal adj display and charge and characteristic and compensat\$4 adj circuit and thermistor | USPAT; EPO; JPO | 2003/07/11 14:46 |
| - | 11 | liquid adj crystal adj display and charge and characteristic and compensat\$4 adj circuit and thermistor and resistor | USPAT; EPO; JPO | 2003/11/20 08:24 |
| - | 7 | liquid adj crystal adj display and charge and characteristic and compensat\$4 adj circuit and thermistor and resistor and parallel | USPAT; EPO; JPO | 2003/07/11 14:47 |
| - | 7 | liquid adj crystal adj display and charge and characteristic and compensat\$4 adj circuit and thermistor\$1 and resistor and parallel | USPAT; EPO; JPO | 2003/07/11 16:27 |
| - | 0 | charge adj characteristic adj compensating adj circuit | USPAT; EPO; JPO | 2003/07/11 16:28 |
| - | 1 | charge adj characteristic and compensating adj circuit | USPAT; EPO; JPO | 2003/07/11 16:30 |
| - | 11 | charge adj compensating adj circuit | USPAT; EPO; JPO | 2003/07/11 16:30 |
| - | 0 | charge adj compensating adj circuit and Liquid adj crystal adj display | USPAT; EPO; JPO | 2003/07/11 16:31 |
| - | 1 | charge adj compensating adj circuit and display | USPAT; EPO; JPO | 2003/07/11 16:31 |
| - | 0 | charge adj compensating adj circuit and display and temperature | USPAT; EPO; JPO | 2003/07/11 16:32 |
| - | 4 | charge adj compensating adj circuit and temperature | USPAT; EPO; JPO | 2003/07/14 08:19 |
| - | 0 | charge adj compensating adj circuit and temperature and thermistor and resistor | USPAT; EPO; JPO | 2003/07/14 08:20 |
| - | 0 | charge adj compensating adj circuit and temperature and thermistor | USPAT; EPO; JPO | 2003/07/14 08:20 |
| - | 1 | charge adj compensating adj circuit and temperature and resistor | USPAT; EPO; JPO | 2003/07/14 08:20 |
| - | 1 | 5,250,937.pn. | USPAT; EPO; JPO | 2003/07/14 09:11 |
| - | 0 | 5,250,937.pn. and current adj controller | USPAT; EPO; JPO | 2003/07/14 09:11 |
| - | 0 | 5,250,937.pn. and current and controller | USPAT; EPO; JPO | 2003/07/14 09:12 |
| - | 1 | 5,250,937.pn. and current | USPAT; EPO; JPO | 2003/07/14 09:12 |
| - | 1 | 5,250,937.pn. and current and control | USPAT; EPO; JPO | 2003/07/14 09:12 |
| - | 1 | 5,250,937.pn. and current and control\$4 | USPAT; EPO; JPO | 2003/07/14 13:55 |
| - | 1 | current adj controller and resistor and thermistor and charge and characteristic and temperature and voltage and display | USPAT; EPO; JPO | 2003/07/14 09:15 |
| - | 11 | current adj controller and resistor and thermistor and charge and temperature and voltage and display | USPAT; EPO; JPO | 2003/07/14 09:22 |
| - | 0 | 5,059,767.pn. and current and control\$4 | USPAT; EPO; JPO | 2003/07/14 13:56 |
| - | 1 | 5,059,767.pn. and current | USPAT; EPO; JPO | 2003/07/14 17:35 |
| - | 1 | 5,754,154.pn. and current | USPAT; EPO; JPO | 2003/07/14 17:36 |

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| - | 50 | current adj controller and resistor and thermistor and transistor and temperature | USPAT; EPO; JPO | 2003/07/14 18:24 |
| - | 2 | liquid adj crystal adj display and charge and characteristic and compensat\$4 adj circuit and thermistor and resistor and change adj temperature | USPAT; EPO; JPO | 2003/11/20 08:25 |
| - | 1 | liquid adj crystal adj display and charge and characteristic and compensat\$4 adj circuit and thermistor and resistor and change adj temperature and width | USPAT; EPO; JPO | 2003/11/20 08:30 |
| - | 0 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change adj width | USPAT; EPO; JPO | 2003/11/20 08:31 |
| - | 33 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change and width | USPAT; EPO; JPO | 2003/11/20 08:31 |
| - | 0 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change adj current adj path and width | USPAT; EPO; JPO | 2003/11/20 08:31 |
| - | 0 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change adj path and width and current | USPAT; EPO; JPO | 2003/11/20 08:32 |
| - | 1 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change and path and width and current and data adj line | USPAT; EPO; JPO | 2003/11/20 08:51 |
| - | 9 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change and path and width and current and data and line | USPAT; EPO; JPO | 2003/11/20 08:37 |
| - | 11 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change and path and width and current | USPAT; EPO; JPO | 2003/11/20 08:39 |
| - | 15 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change and current and gate and driver | USPAT; EPO; JPO | 2003/11/20 08:40 |
| - | 12 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change and current and gate and driver and data and line | USPAT; EPO; JPO | 2003/11/20 08:40 |
| - | 12 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change and current and gate and driver and data and line\$1 | USPAT; EPO; JPO | 2003/11/20 08:42 |
| - | 0 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change and current adj controller and gate and driver and data and line\$1 | USPAT; EPO; JPO | 2003/11/20 08:42 |
| - | 0 | liquid adj crystal adj display and thermistor and resistor and change and temperature and change and current adj controller and gate and driver and data and line\$1 | USPAT; EPO; JPO | 2003/11/20 08:42 |
| - | 31 | liquid adj crystal adj display and thermistor and resistor and change and temperature and change and current adj control\$4 and gate and driver and data and line\$1 | USPAT; EPO; JPO | 2003/11/20 08:43 |
| - | 1 | liquid adj crystal adj display and thermistor and resistor and change adj temperature and change and current adj control\$4 and gate and driver and data and line\$1 | USPAT; EPO; JPO | 2003/11/20 08:43 |
| - | 1 | 5,119,215.pn. | USPAT; EPO; JPO | 2003/11/20 09:28 |

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|---|-----|---|--------------------|---------------------|
| - | 398 | current adj controller and chang\$5 and width and current and path | USPAT; EPO; JPO | 2004/01/26 09:41 |
| - | 398 | current adj controller and (chang\$5 and width and current and path) | USPAT; EPO; JPO | 2004/01/26 09:41 |
| - | 19 | current adj controller and (chang\$5 and width and current and path) and data adj line\$1 | USPAT; EPO; JPO | 2004/01/26 11:43 |
| - | 0 | current adj controller and (chang\$5 and width and current and path) and data adj line\$1 and liquid adj crystal adj cell\$1 | USPAT; EPO; JPO | 2004/01/26 09:42 |
| - | 0 | current adj controller and (chang\$5 and width and current and path) and data adj line\$1 and liquid adj crystal adj pixel\$1 | USPAT; EPO; JPO | 2004/01/26 09:42 |
| - | 0 | current adj controller and (chang\$5 and width and current and path) and data adj line\$1 and liquid adj crystal adj display | USPAT; EPO; JPO | 2004/01/26 09:43 |
| - | 3 | current adj controller and (chang\$5 and width and current and path) and data adj line\$1 and (liquid adj crystal adj display or LCD) | USPAT; EPO; JPO | 2004/01/26 09:45 |
| - | 1 | current adj controller and (chang\$5 and width adj current adj path) | USPAT; EPO; JPO | 2004/01/26 09:47 |
| - | 2 | (LCD or liquid adj crystal adj display) and (chang\$5 and width adj current adj path) | USPAT; EPO; JPO | 2004/01/26 11:14 |
| - | 0 | (LCD or liquid adj crystal adj display) and (chang\$5 adj width adj current adj path) | USPAT; EPO; JPO | 2004/01/26 09:52 |
| - | 0 | display and (chang\$5 adj width adj current adj path) | USPAT; EPO; JPO | 2004/01/26 09:52 |
| - | 0 | (chang\$5 adj width adj current adj path) | USPAT; EPO; JPO | 2004/01/26 09:53 |
| - | 0 | (chang\$5 adj width adj current adj conductor) | USPAT; EPO; JPO | 2004/01/26 09:53 |
| - | 0 | (var\$6 adj width adj current adj conductor) | USPAT; EPO; JPO | 2004/01/26 09:53 |
| - | 0 | (LCD or liquid adj crystal adj display) and (var\$6 adj width adj current adj path) | USPAT; EPO; JPO | 2004/01/26 09:54 |
| - | 0 | (LCD or liquid adj crystal adj display) and (var\$6 adj width adj current adj path) | USPAT; EPO; JPO | 2004/01/26 09:54 |
| - | 2 | (var\$6 adj width adj current adj path) | USPAT; EPO; JPO | 2004/01/26 11:08 |
| - | 0 | (var\$6 adj width adj current adj conductor) | USPAT; EPO; JPO | 2004/01/26 11:09 |
| - | 0 | (var\$6 adj width\$1 adj current adj conductor\$1) | USPAT; EPO; JPO | 2004/01/26 11:09 |
| - | 1 | (LCD or liquid adj crystal adj display) and (var\$5 and width adj current adj path) | USPAT; EPO; JPO | 2004/01/26 11:14 |
| - | 0 | current adj controller and (chang\$5 adj width and current and path) and data adj line\$1 | USPAT; EPO; JPO | 2004/01/26 11:44 |
| - | 3 | current adj controller and (var\$6 adj width and current and path) and data adj line\$1 | USPAT; EPO; JPO | 2004/01/26 12:19 |
| - | 0 | current adj controller and (var\$6 adj width adj current adj path) and data adj line\$1 | USPAT; EPO; JPO | 2004/01/26 11:48 |
| - | 0 | current adj controller and (var\$6 adj width adj current adj conductor\$1) and data adj line\$1 | USPAT; EPO; JPO | 2004/01/26 11:48 |
| - | 0 | current adj controller and (var\$6 adj width adj current adj electrode\$1) and data adj line\$1 | USPAT; EPO; JPO | 2004/01/26 11:49 |
| - | 0 | current adj controller and (var\$6 adj width adj current adj electrode\$1) | USPAT; EPO; JPO | 2004/01/26 11:49 |
| - | 0 | current and controller and (var\$6 adj width adj current adj electrode\$1) | USPAT; EPO; JPO | 2004/01/26 11:49 |

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|---|---------|--|--------------------|---------------------|
| - | 0 | (var\$6 adj width adj current adj electrode\$1) | USPAT; EPO; JPO | 2004/01/26 11:49 |
| - | 0 | current adj controller and (var\$6 adj width and current adj path) and data adj line\$1 | USPAT; EPO; JPO | 2004/01/26 12:19 |
| - | 396 | gate adj line\$1 adj driv\$6 | USPAT; EPO; JPO | 2004/01/26 12:20 |
| - | 181 | gate adj line\$1 adj driv\$6 and receiv\$6 | USPAT; EPO; JPO | 2004/01/26 12:21 |
| - | 169 | gate adj line\$1 adj driv\$6 and receiv\$6 and control\$6 | USPAT; EPO; JPO | 2004/01/26 12:21 |
| - | 118 | gate adj line\$1 adj driv\$6 and receiv\$6 and control\$6 and supply\$6 | USPAT; EPO; JPO | 2004/01/26 12:22 |
| - | 81 | gate adj line\$1 adj driv\$6 and receiv\$6 and control\$6 and supply\$6 and predetermine\$5 | USPAT; EPO; JPO | 2004/01/26 12:22 |
| - | 26 | gate adj line\$1 adj driv\$6 and receiv\$6 and control\$6 and supply\$6 and predetermine\$5 adj voltage\$1 | USPAT; EPO; JPO | 2004/01/26 12:22 |
| - | 8 | gate adj line\$1 adj driv\$6 and receiv\$6 and control\$6 and supply\$6 and predetermine\$5 adj voltage\$1 and accord\$6 and control\$6 adj signal\$1 | USPAT; EPO; JPO | 2004/01/26 12:23 |
| - | 8 | gate adj line\$1 adj driv\$6 and receiv\$6 and control\$6 and supply\$6 and predetermine\$5 adj voltage\$1 and accord\$6 and control\$6 adj signal\$1 and gate adj Line\$1 | USPAT; EPO; JPO | 2004/01/26 12:24 |
| - | 4 | gate adj line\$1 adj driv\$6 and receiv\$6 and control\$6 and supply\$6 and predetermine\$5 adj voltage\$1 and accord\$6 and control\$6 adj signal\$1 and gate adj Line\$1 and (LCD or liquid adj crystal adj panel) | USPAT; EPO; JPO | 2004/01/26 12:27 |
| - | 1 | gate adj line\$1 adj driv\$6 and receiv\$6 and supply\$6 and predetermine\$5 adj voltage\$1 and accord\$6 and control\$6 adj signal\$1 and gate adj Line\$1 adj control\$6 and (LCD or liquid adj crystal adj panel) | USPAT; EPO; JPO | 2004/01/26 12:46 |
| - | 1 | gate adj line\$1 adj driv\$6 and receiv\$6 and supply\$6 and predetermine\$5 adj voltage\$1 and accord\$6 and gate adj Line\$1 adj control\$6 and (LCD or liquid adj crystal adj panel) | USPAT; EPO; JPO | 2004/01/26 12:52 |
| - | 1 | gate adj line\$1 adj driv\$6 adj receiv\$6 | USPAT; EPO; JPO | 2004/01/26 12:53 |
| - | 9 | gate adj line\$1 adj (driv\$6 and receiv\$6) | USPAT; EPO; JPO | 2004/01/26 12:53 |
| - | 2170069 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 signal\$1 | USPAT; EPO; JPO | 2004/01/26 12:54 |
| - | 1 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and (gate adj line\$1 adj control\$6) | USPAT; EPO; JPO | 2004/01/26 12:55 |
| - | 6 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 | USPAT; EPO; JPO | 2004/01/26 12:58 |
| - | 6 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and supply\$6 | USPAT; EPO; JPO | 2004/01/26 12:58 |
| - | 0 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and supply\$6 and predetermine\$5 adj voltage\$1 | USPAT; EPO; JPO | 2004/01/26 12:59 |
| - | 6 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and supply\$6 and voltage\$1 | USPAT; EPO; JPO | 2004/01/26 12:59 |
| - | 5 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and supply\$6 and predetermine\$5 and voltage\$1 | USPAT; EPO; JPO | 2004/01/28 12:41 |
| - | 0 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and temperature and supply\$6 and predetermine\$5 and voltage\$1 | USPAT; EPO; JPO | 2004/01/26 14:00 |

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|---|---------|--|--------------------|---------------------|
| - | 0 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and thermistor and supply\$6 and predetermin\$5 and voltage\$1 | USPAT; EPO; JPO | 2004/01/26 14:01 |
| - | 0 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and thermistor | USPAT; EPO; JPO | 2004/01/26 14:01 |
| - | 0 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and temperature | USPAT; EPO; JPO | 2004/01/26 14:01 |
| - | 6 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 | USPAT; EPO; JPO | 2004/01/26 16:52 |
| - | 0 | gate adj line\$1 adj (driv\$6 and receiv\$6) and temperature | USPAT; EPO; JPO | 2004/01/26 16:53 |
| - | 10900 | current adj path and temperature | USPAT; EPO; JPO | 2004/01/26 16:53 |
| - | 645 | current adj path and temperature and thermistor | USPAT; EPO; JPO | 2004/01/26 16:53 |
| - | 530 | current adj path and temperature and thermistor and resistor | USPAT; EPO; JPO | 2004/01/26 16:54 |
| - | 0 | current adj path adj wid\$5 and temperature and thermistor and resistor | USPAT; EPO; JPO | 2004/01/26 16:54 |
| - | 0 | current adj path adj wide\$5 and temperature and thermistor and resistor | USPAT; EPO; JPO | 2004/01/26 16:56 |
| - | 0 | (var\$6 adj width and current adj path) and temperature and thermistor and resistor and gate adj line | USPAT; EPO; JPO | 2004/01/26 16:56 |
| - | 0 | (var\$6 adj width and current adj path) and temperature and thermistor and resistor and gate adj line\$1 | USPAT; EPO; JPO | 2004/01/26 16:57 |
| - | 0 | (var\$6 adj width and current adj path) and temperature and thermistor and resistor and (LCD or liquid adj crystal adj display) | USPAT; EPO; JPO | 2004/01/26 16:57 |
| - | 8 | (var\$6 adj width and current adj path) and temperature and thermistor and resistor | USPAT; EPO; JPO | 2004/01/26 16:59 |
| - | 0 | (var\$6 adj width adj current adj path) and temperature and thermistor and resistor | USPAT; EPO; JPO | 2004/01/26 16:59 |
| - | 0 | (var\$6 adj width adj path and current) and temperature and thermistor and resistor | USPAT; EPO; JPO | 2004/01/26 16:59 |
| - | 939 | 345/204.ccls. | USPAT; EPO; JPO | 2004/01/27 08:48 |
| - | 1741807 | temperature | USPAT; EPO; JPO | 2004/01/27 08:50 |
| - | 44 | temperature and width adj current adj path | USPAT; EPO; JPO | 2004/01/27 15:02 |
| - | 0 | temperature and width adj current adj path adj change\$4 | USPAT; EPO; JPO | 2004/01/27 08:51 |
| - | 2 | temperature and width adj current adj path adj var\$5 | USPAT; EPO; JPO | 2004/01/27 08:51 |
| - | 6 | temperature and width adj current adj path adj increas\$5 | USPAT; EPO; JPO | 2004/01/27 08:54 |
| - | 6 | width adj current adj path adj increas\$5 | USPAT; EPO; JPO | 2004/01/27 08:54 |
| - | 111016 | width adj current adj path adj increas\$5 and LCD or liquid adj crystal adj display | USPAT; EPO; JPO | 2004/01/27 08:55 |
| - | 0 | width adj current adj path adj increas\$5 and (LCD or liquid adj crystal adj display) | USPAT; EPO; JPO | 2004/01/27 08:55 |
| - | 0 | width adj current adj path adj larg\$5 and (LCD or liquid adj crystal adj display) | USPAT; EPO; JPO | 2004/01/27 08:55 |
| - | 138150 | width adj current adj path adj great\$3and (LCD or liquid adj crystal adj display) | USPAT; EPO; JPO | 2004/01/27 08:55 |
| - | 0 | width adj current adj path adj great\$3 and (LCD or liquid adj crystal adj display) | USPAT; EPO; JPO | 2004/01/27 08:55 |
| - | 3 | temperature and width adj current adj path and display | USPAT; EPO; JPO | 2004/01/27 15:02 |

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|---|----|--|--------------------|---------------------|
| - | 15 | gate adj line\$1 adj driv\$6 and receiv\$6 and control\$6 and supply\$6 and predetermine\$5 adj voltage\$1 and accord\$6 | USPAT; EPO; JPO | 2004/01/28 09:35 |
| - | 0 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and supply\$6 and predetermin\$5 and voltage\$1 and temperature | USPAT; EPO; JPO | 2004/01/28 12:42 |
| - | 5 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and supply\$6 and predetermin\$5 and voltage\$1 | USPAT; EPO; JPO | 2004/01/28 16:45 |
| - | 0 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and supply\$6 and predetermin\$5 adj voltage\$1 | USPAT; EPO; JPO | 2004/01/28 16:45 |
| - | 0 | gate adj line\$1 adj (driv\$6 and receiv\$6) and Control\$6 adj signal\$1 and predetermin\$5 adj voltage\$1 | USPAT; EPO; JPO | 2004/01/28 16:45 |
| - | 0 | gate adj line\$1 adj (driv\$6 and receiv\$6) and predetermin\$5 adj voltage\$1 | USPAT; EPO; JPO | 2004/01/28 16:46 |
| - | 57 | gate adj line\$1 adj driv\$6 and predetermin\$5 adj voltage\$1 | USPAT; EPO; JPO | 2004/01/28 16:46 |
| - | 29 | gate adj line\$1 adj driv\$6 and receiv\$6 and predetermin\$5 adj voltage\$1 | USPAT; EPO; JPO | 2004/01/28 16:46 |
| - | 9 | gate adj line\$1 adj driv\$6 and receiv\$6 and predetermin\$5 adj voltage\$1 and Control\$6 adj signal\$1 and supply\$6 | USPAT; EPO; JPO | 2004/06/03 14:28 |